REMARKS

Claims 1, 2, 4-7, 9-12 and 14-20 are pending in the present application.

Claim Rejections - 35 <u>U.S.C. §§ 102 and 103</u>

Claims 1, 4, 6, 9, 11, 12, 14-18 and 20 were rejected under 35 U.S.C. § 102(b) as being anticipated by Oka (U.S. Patent 6,366,175); claims 2 and 10 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Oka in view of Gillig (U.S. Patent 5,856,766); claim 5 was rejected under 35 U.S.C. § 103(a) as being unpatetable over Oka in view of Cole (of U.S. Patent 5,994,970); claim 7 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Oka in view of Wojewoda (U.S. Patent 5,731,742); claim 16 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Oka in view of Shibuya (U.S. Patent 6,292,066); and claim 19 was rejected under U.S.C. § 103(a) as being unpatentable over Oka.

Favorable reconsideration is requested.

Oka discloses a temperature compensated oscillator. The oscillator includes an oscillation circuit 29 and a temperature compensation circuit 21 which outputs a compensation voltage Vc1 to a variable capacitance element Cv for compensating for temperature changes. The oscillation circuit 29 includes a resonator such as a quartz crystal resonator and the variable capacitance element Cv. The oscillator has a power control circuit 26 for controlling power supply to the temperature compensation circuit 21 and the oscillation circuit 29.

Applicant respectfully submits that Oka does not disclose:

said selection means has a selection circuit ... for fixing the capacitance value of said oscillation capacitor to a predetermined constant capacitance Application No. 10/501,774

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value independent of the temperature when disabling said temperature

compensation function

as recited in claim 1.

Oka discloses a track and hold circuit 22 for switching in and out of a track mode and a

hold mode. Oka discloses that the power control circuit 26 sets the mode control signal for the

track and hold circuit. (Col. 14, lines 16-22.) In the track mode, the output voltage from the

temperature compensation circuit 21 is also outputted by the track and hold circuit. In the hold

mode, the output voltage of the track and hold circuit is maintained at the level of the input from

the temperature compensation circuit 21 at the time of mode switch. (Col. 14, lines 16-22.) In

other words, the output voltage is maintained at the level just before switching off the

temperature compensation circuit.

Since the output voltage is maintained at the level just before switching off the

temperature compensation circuit, the capacitance value of variable capacitance element Cv is

maintained at the level just before switching off the temperature compensation. This means that

the capacitance value is dependent on the temperature at the time the temperature compensation

is turned off. Therefore, the capacitance value of the variable capacitance element Cv is not

fixed to a predetermined constant capacitance independent of the temperature when

temperature compensation is switched off.

The Office Action takes the position that power control circuit 26 corresponds with the

selection circuit as recited in claim 1. (Office Action, page 3.) The Office Action incorrectly

states that the temperature compensation is disabled when SW1 is set to Off. (Office Action,

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page 4.) When SW1 is set to Off, Vc1 passes through filter circuit 23 for filtering out noise.

(Col. 17, lines 4-6; Fig. 9.) The temperature compensation circuit is controlled by the power

control circuit 26. (Col. 16, lines 24-29; col. 17, lines 12-17.) As stated above, when the

temperature compensation circuit is turned off, the track and hold circuit maintains an output

voltage corresponding to the last voltage from the temperature compensation circuit just before

turning off. (Col. 14, lines 16-22.) Thus, Oka does not disclose fixing the variable capacitance

element Cv to a predetermined constant capacitance independent of the temperature when

temperature compensation is switched off. Therefore Oka does not disclose the elements as

recited in claim 1.

Regarding claim 2, the Office Action acknowledges that Oka does not disclose a variable

frequency division circuit between the oscillation circuit and the output line, and that the

selection means varies the frequency division ratio when enabling temperature compensation and

fixing the frequency division ratio to a predetermined value when disabling temperature

compensation.

The Office Action cites Gillig for disclosing this feature. Gillig discloses a

communication device comprising a frequency synthesizer 24 driven with a reference frequency

from a crystal oscillator 58. The frequency synthesizer is disclosed as including a frequency

multiplication element 48 which is programmed to vary as a function of a temperature variation

of the output frequency of the crystal oscillator.

Applicant respectfully submits that neither Oka nor Gillig teach or suggest:

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wherein said selection means has means for ... fixing the frequency division ratio of said variable frequency division circuit to a predetermined

value when disabling the temperature compensation function

as recited in claim 2.

The Office Action takes the position that this limitation reads on Gillig when the

temperature is very close to room temperature, and thus no compensation is needed. (Office

Action, page 5.) However, the fact that no compensation is needed is not the same as disabling

temperature compensation and setting the variable frequency division circuit to a predetermined

value.

When no temperature compensation is needed in Gillig, the variable frequency division

circuit outputs a signal based on a calculated value such that the frequency of the output signal is

not adjusted. Thus, temperature compensation is not disabled even when no temperature

compensation is needed. Furthermore, when no temperature compensation is needed, the value

of the frequency division ratio is still calculated to the proper value such that no adjustment is

made. Thus, the frequency division ratio is not set to a predetermined value even if no

temperature compensation is needed. Therefore, Oka in view of Gillig does not teach or suggest

the elements as recited in claim 2.

For at least the foregoing reasons, claims 1 and 2 are patentable over the cited references,

and claims 4-7, 9-12 and 14-20 are patentable by virtue of their dependence from claim 1 or 2.

Accordingly, withdrawal of the rejection of claims 1, 2, 4-7, 9-12 and 14-20 is hereby solicited.

In view of the above remarks, Applicant submits that that the claims are in condition for

allowance. Applicant requests such action at an early date.

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If the Examiner believes that this application is not now in condition for allowance, the

Examiner is requested to contact Applicant's undersigned attorney to arrange for an interview to

expedite the disposition of this case.

If this paper is not timely filed, Applicant respectfully petitions for an appropriate

extension of time. The fees for such an extension or any other fees that may be due with respect

to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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